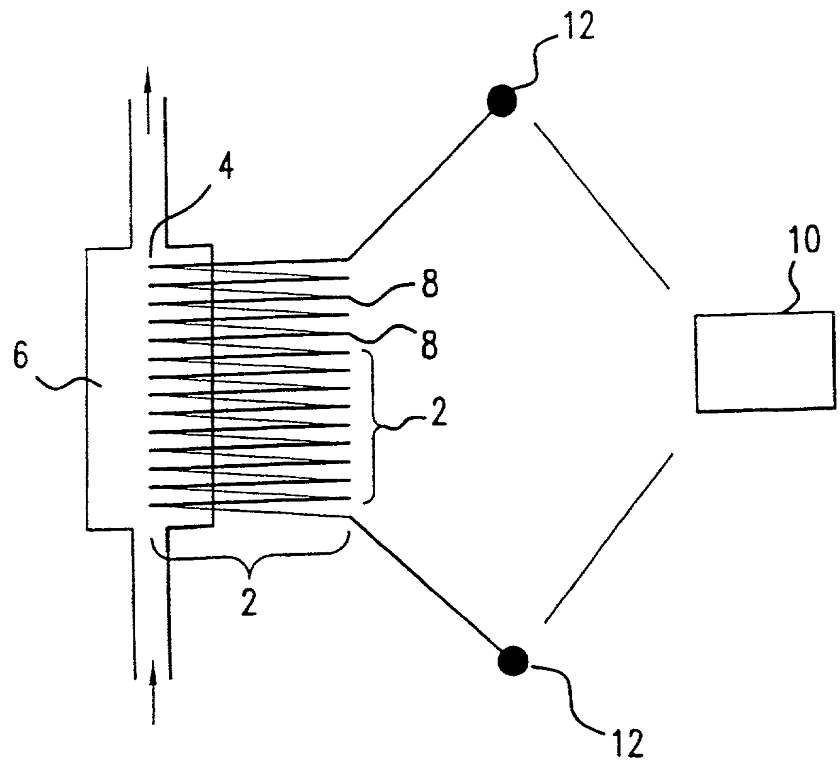


FIG.1

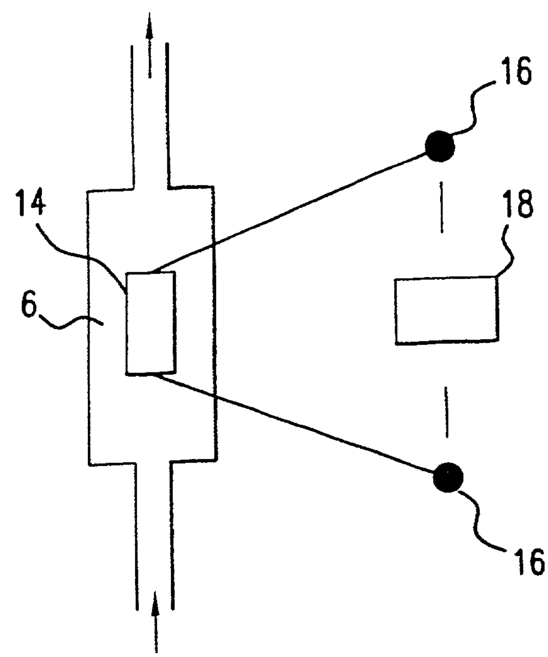


FIG.2

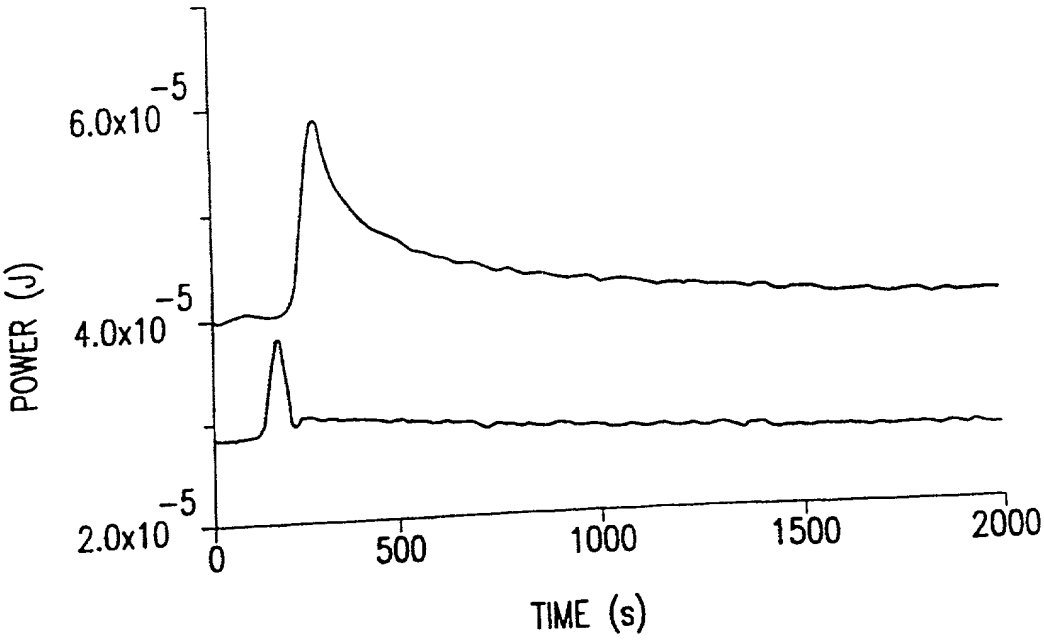


FIG.3

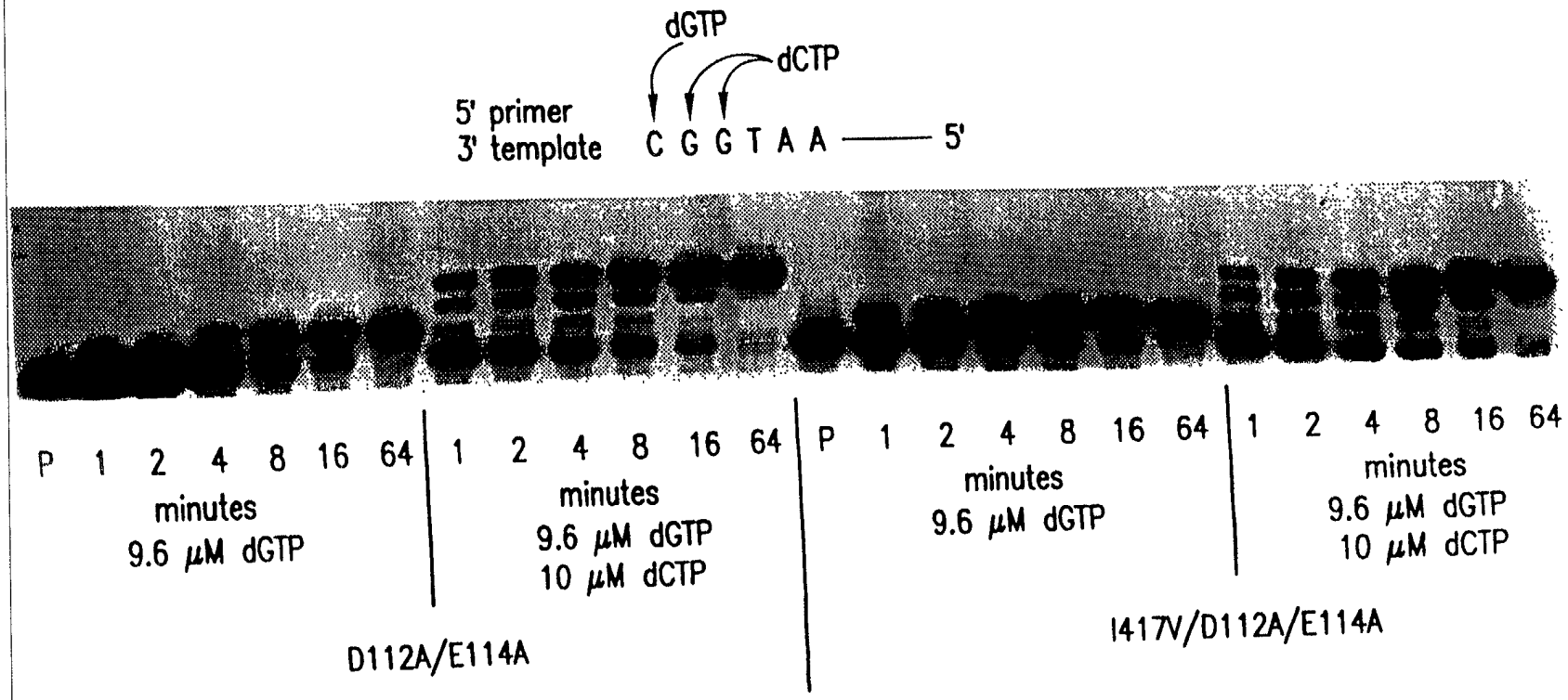


FIG.4

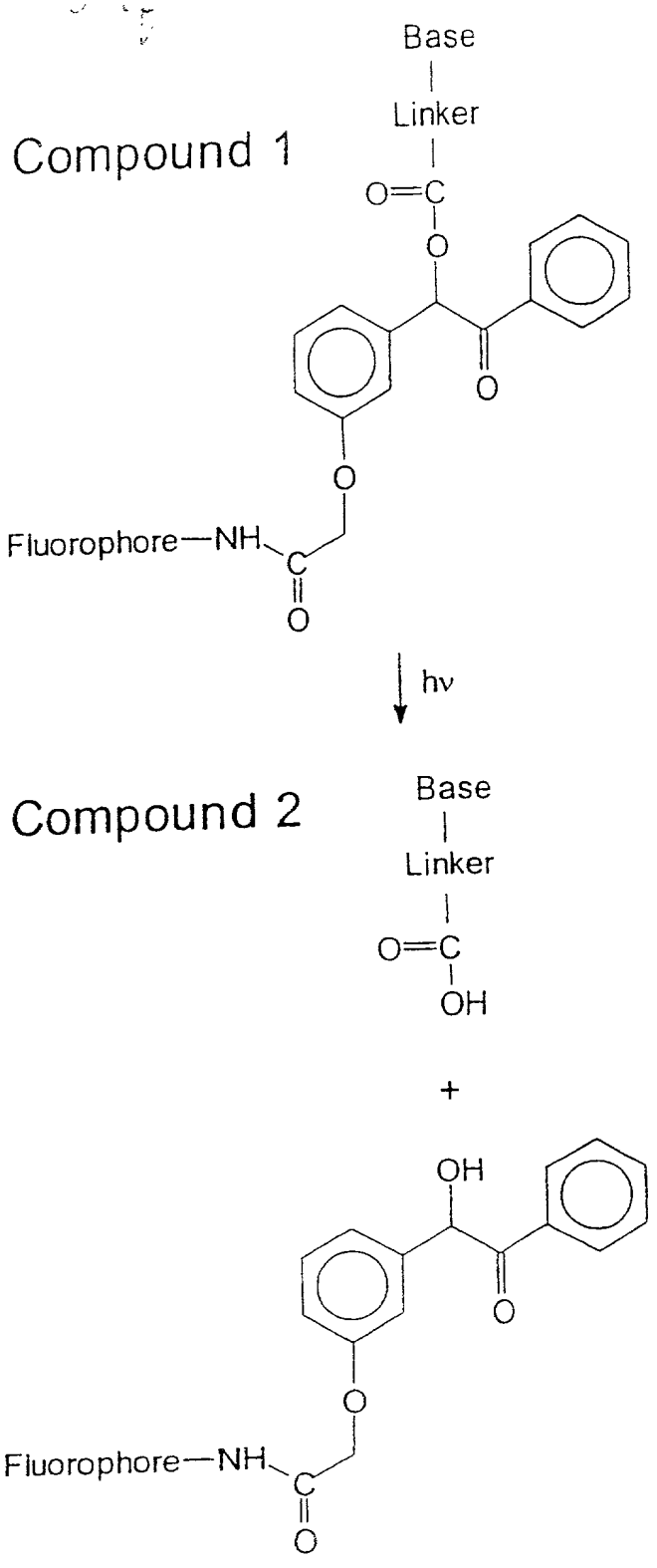

Compound 1
Base
Linker
O=C
O
O
O
Fluorophore—NH
C
O
hν
Compound 2
Base
Linker
O=C
OH
+
OH
O
O
Fluorophore—NH
C
O

FIG.5

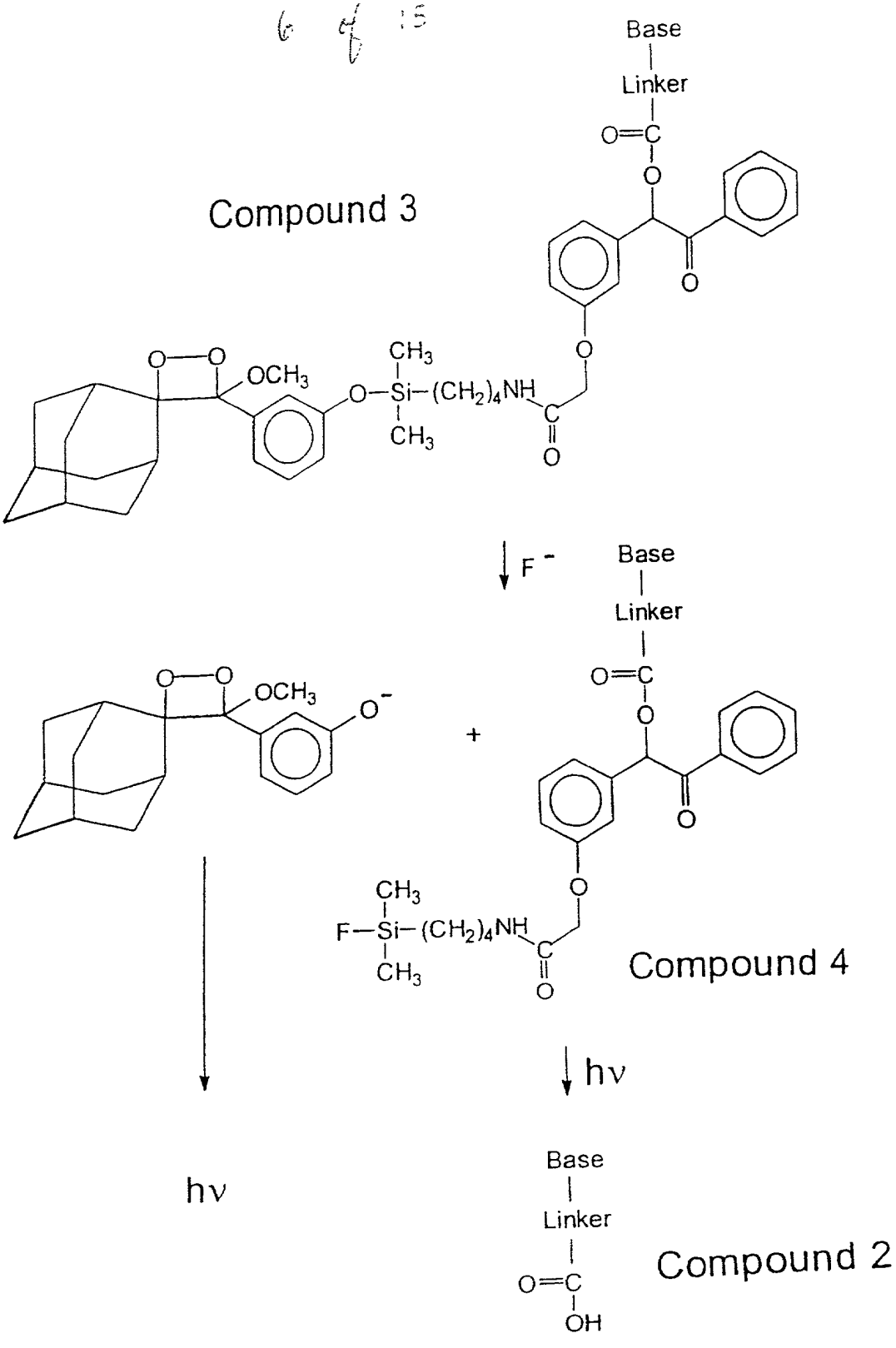


FIG.6

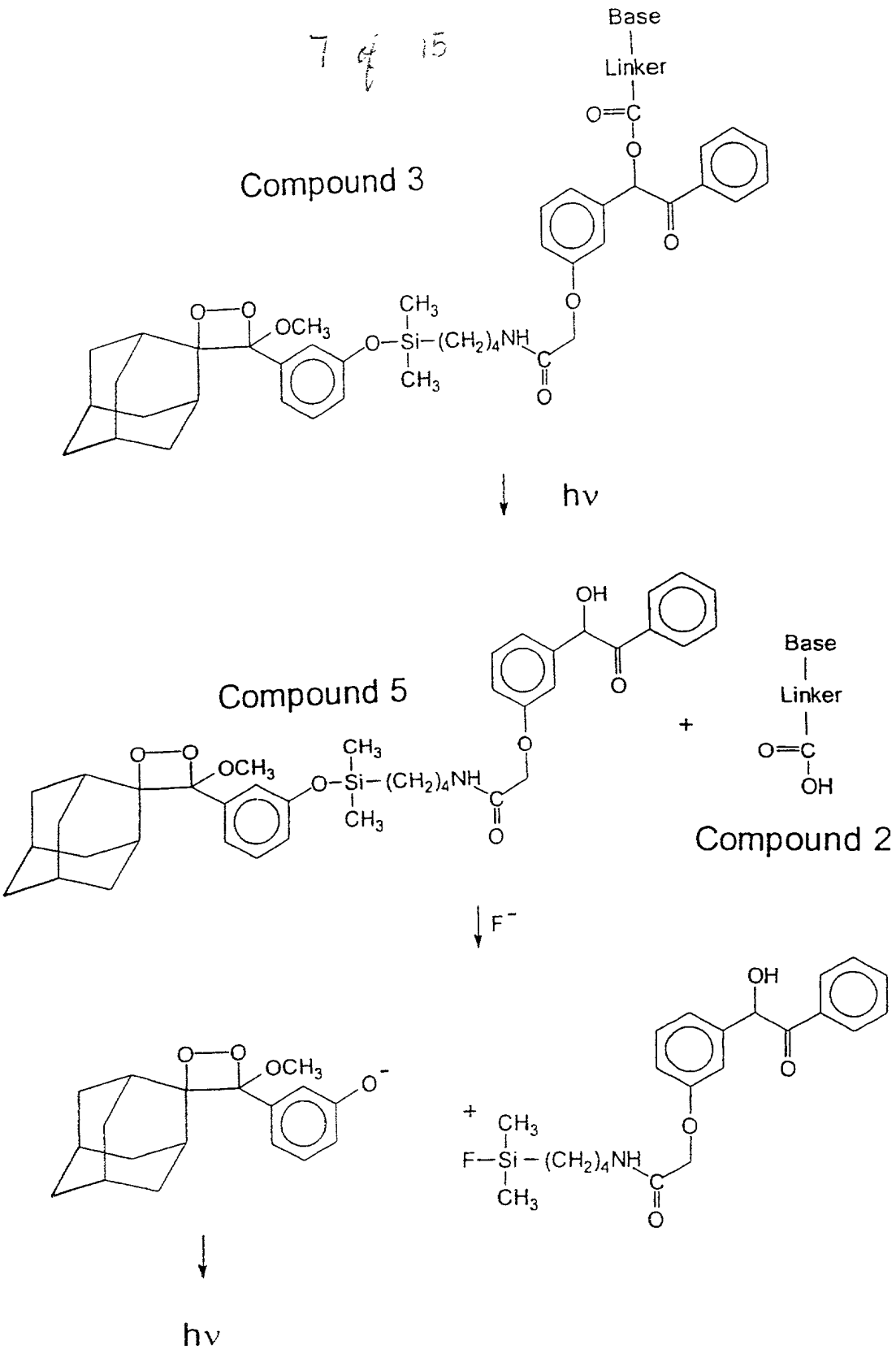


FIG.7

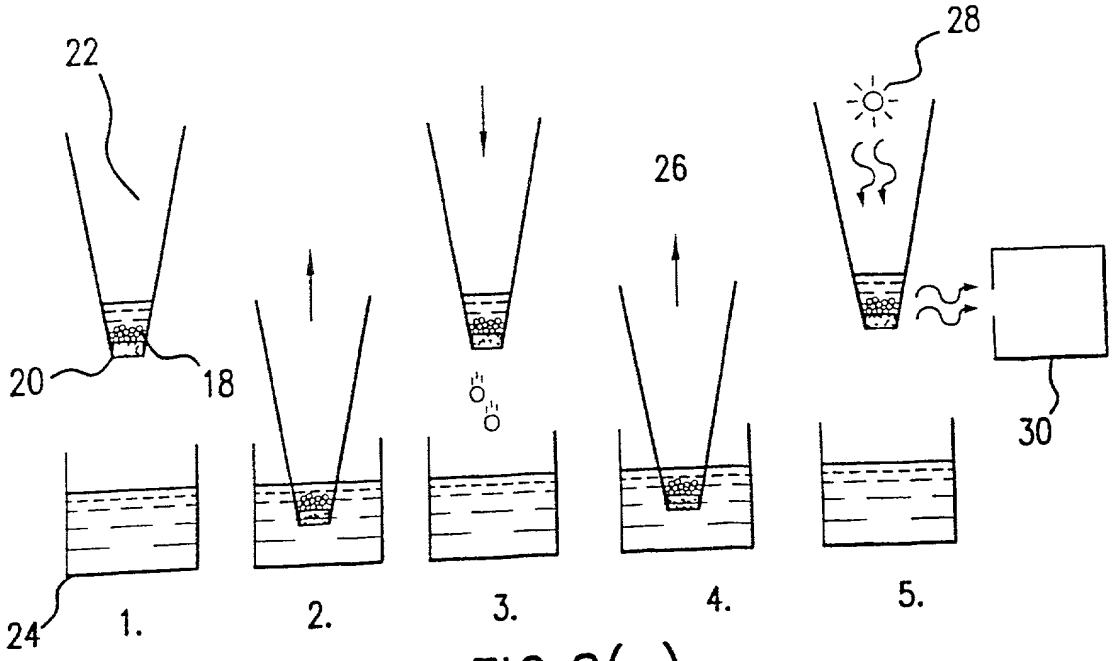


FIG.8(a)

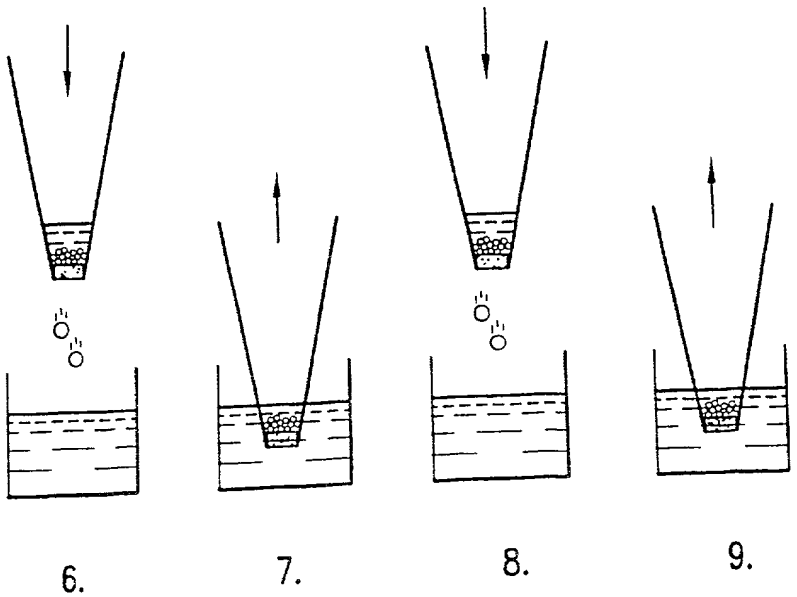


FIG.8(b)

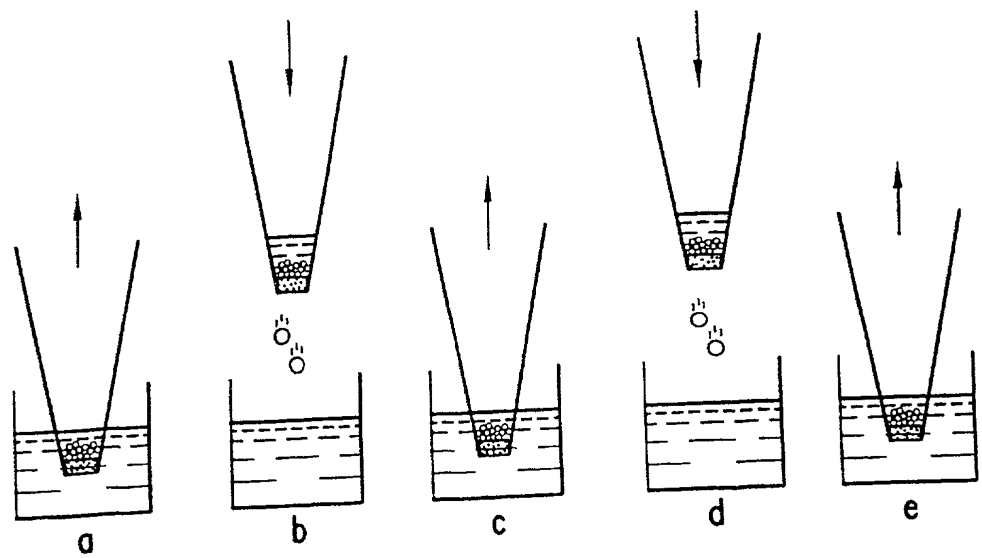


FIG.9

MECHANISM OF PHOTOBLEACHING OF FLUORESCEIN BY DPI (DIPHENYLIODONIUM ION)

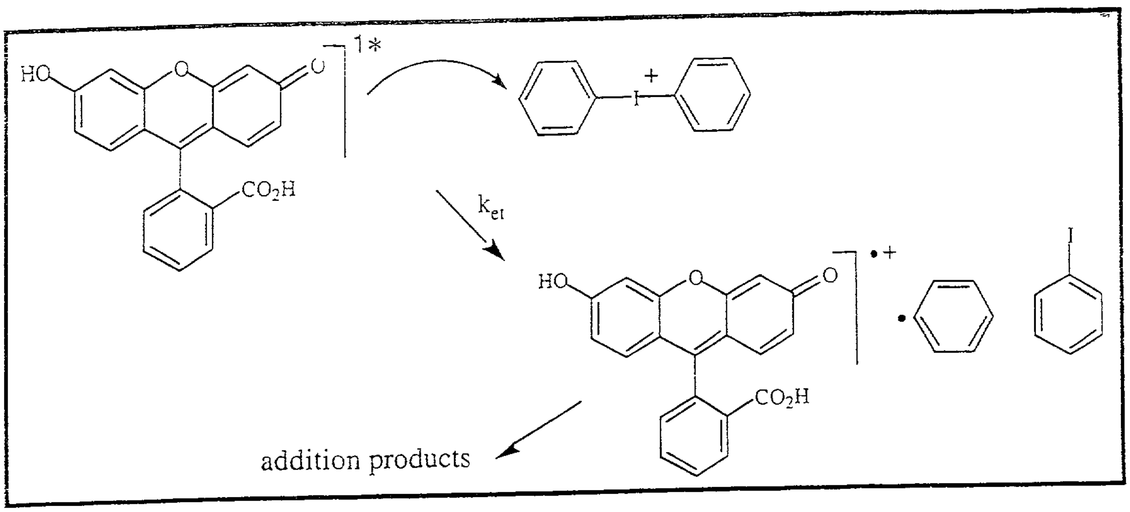
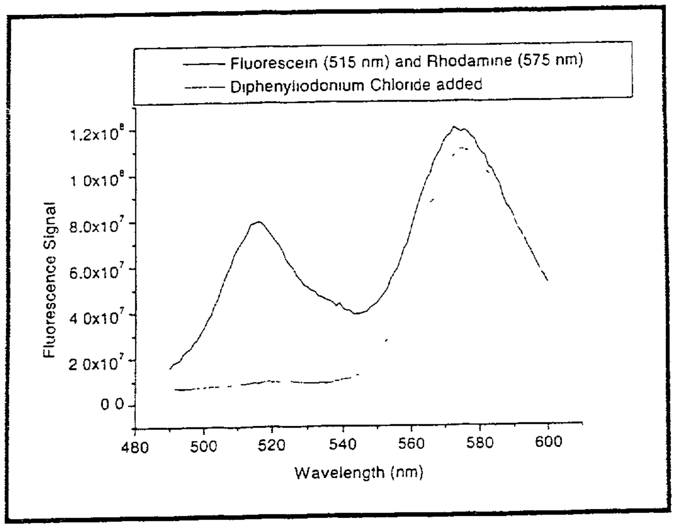
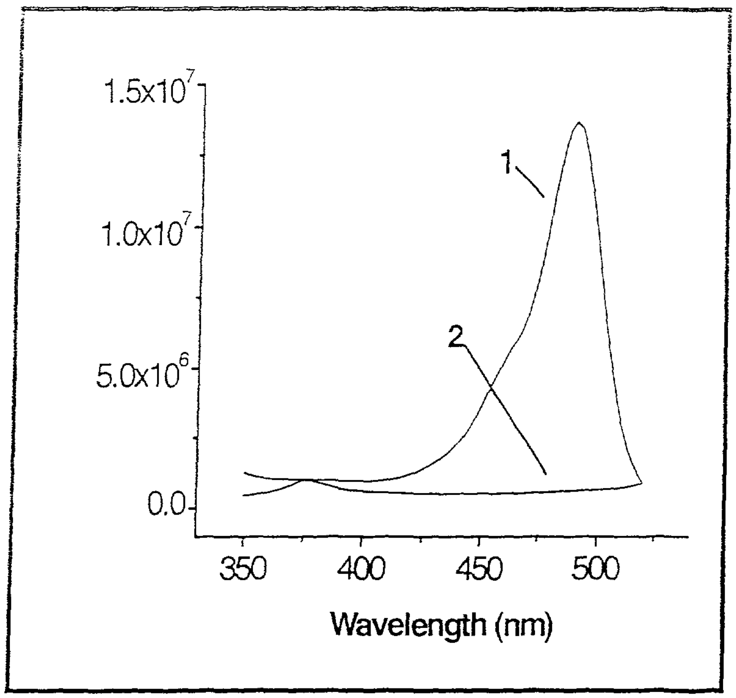


FIGURE 1C



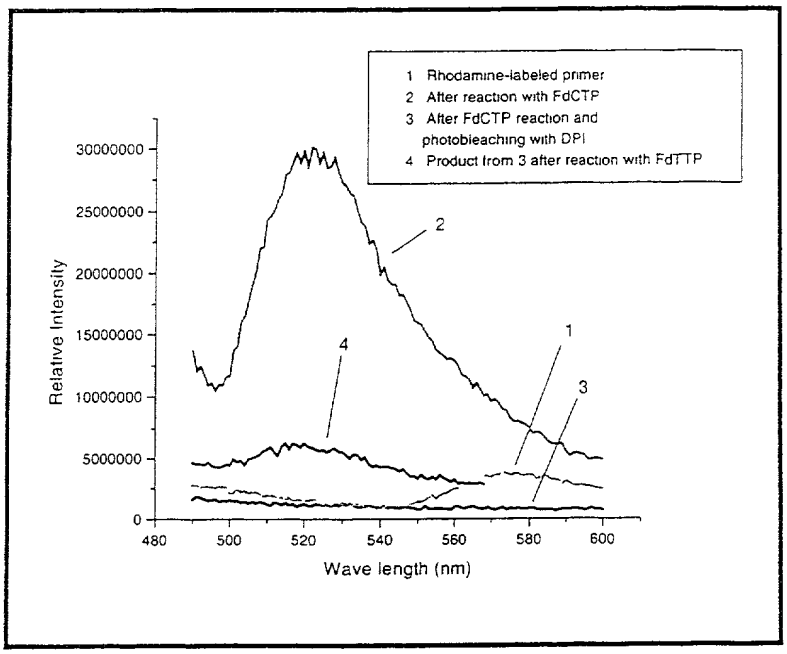
Fluorescence spectra of equimolar fluorescein and tetramethylrhodamine before and after addition of diphenyliodonium chloride

FIGURE 11



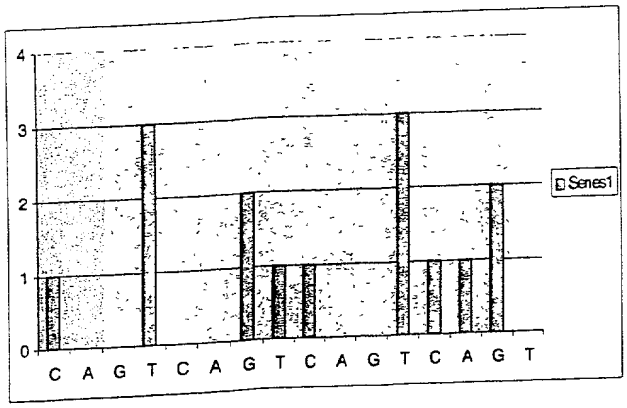
UV absorption spectra: (1) Fluorescein (2) Fluorescein + DPI after single flash from camera strobe

FIGURE 12

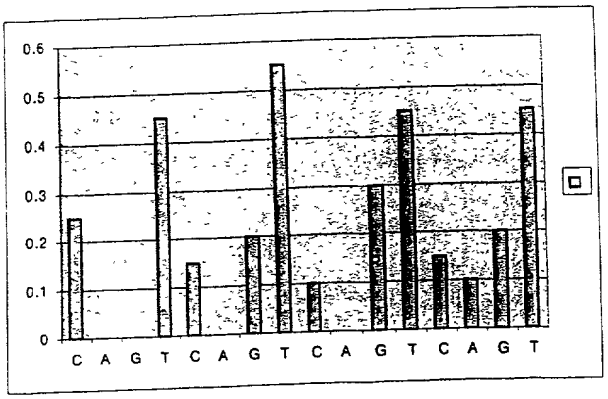


Results of single-nucleotide polymerase reaction with DPI photobleaching between incorporations

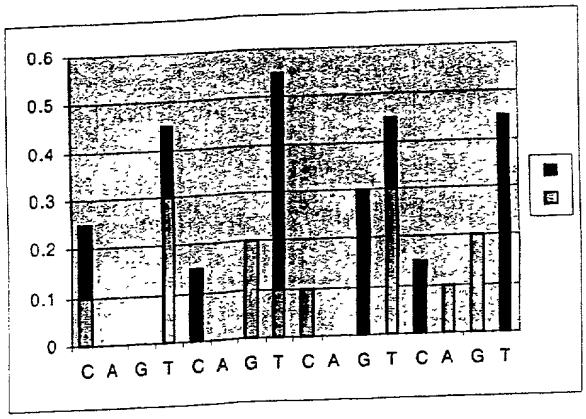
FIGURE 13



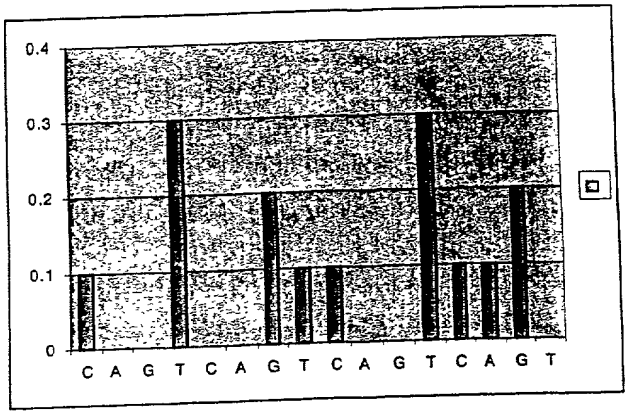
A



B

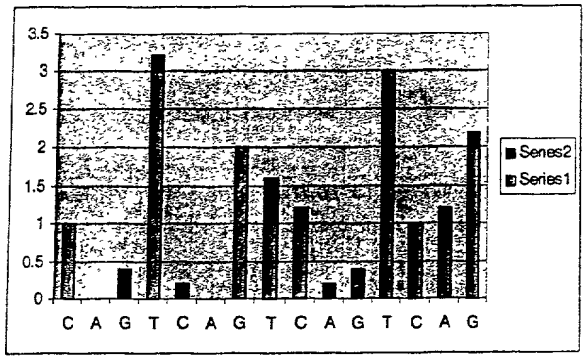


C



D

FIGURE 14



Effect of a leading strand population on extension signals

FIGURE 15